CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :04.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :04.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	186	186	1.9	98.1	95-100
22.4	2533	2719	27.2	72.8	60-80
11.2	2155	4874	48.7	51.3	40-60
4.75	1843	6717	67.2	32.8	25-40
2.36	1182	7899	79.0	21.0	15-30
0.600	578	8477	84.8	15.2	8-22
0.075	1236	9713	97.1	2.9	0-5

Note:

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for CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :04.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :04.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	190	190	1.9	98.1	95-100
22.4	2539	2729	27.3	72.7	60-80
11.2	2169	4898	49.0	51.0	40-60
4.75	1839	6737	67.4	32.6	25-40
2.36	1179	7916	79.2	20.8	15-30
0.600	629	8545	85.5	14.6	8-22
0.075	1232	9777	97.8	2.2	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 05.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	180	180	1.8	98.2	95-100
22.4	2555	2735	27.4	72.7	60-80
11.2	2153	4888	48.9	51.1	40-60
4.75	1843	6731	67.3	32.7	25-40
2.36	1183	7914	79.1	20.9	15-30
0.600	582	8496	85.0	15.0	8-22
0.075	1232	9728	97.3	2.7	0-5

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Date of Testing : 05.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	183	183	1.8	98.2	95-100
22.4	2160	2343	23.4	76.6	60-80
11.2	2456	4799	48.0	52.0	40-60
4.75	1838	6637	66.4	33.6	25-40
2.36	1181	7818	78.2	21.8	15-30
0.600	625	8443	84.4	15.6	8-22
0.075	1232	9675	96.8	3.3	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 05.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	158	158	1.6	98.4	95-100
22.4	2563	2721	27.2	72.8	60-80
11.2	2111	4832	48.3	51.7	40-60
4.75	1841	6673	66.7	33.3	25-40
2.36	1181	7854	78.5	21.5	15-30
0.600	580	8434	84.3	15.7	8-22
0.075	1230	9664	96.6	3.4	0-5

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	163	163	1.6	98.4	95-100
22.4	2530	2693	26.9	73.1	60-80
11.2	2165	4858	48.6	51.4	40-60
4.75	1840	6698	67.0	33.0	25-40
2.36	1180	7878	78.8	21.2	15-30
0.600	626	8504	85.0	15.0	8-22
0.075	1236	9740	97.4	2.6	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Prajna

Authorised Signatory

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IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 05.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	200	200	2.0	98.0	95-100
22.4	2536	2736	27.4	72.6	60-80
11.2	2155	4891	48.9	51.1	40-60
4.75	1845	6736	67.4	32.6	25-40
2.36	1189	7925	79.3	20.8	15-30
0.600	582	8507	85.1	14.9	8-22
0.075	1232	9739	97.4	2.6	0-5

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Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	200	200	2.0	98.0	95-100
22.4	2536	2736	27.4	72.6	60-80
11.2	2155	4891	48.9	51.1	40-60
4.75	1845	6736	67.4	32.6	25-40
2.36	1189	7925	79.3	20.8	15-30
0.600	582	8507	85.1	14.9	8-22
0.075	1232	9739	97.4	2.6	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :07.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :07.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	194	194	1.9	98.1	95-100
22.4	2533	2727	27.3	72.7	60-80
11.2	2163	4890	48.9	51.1	40-60
4.75	1844	6734	67.3	32.7	25-40
2.36	1183	7917	79.2	20.8	15-30
0.600	620	8537	85.4	14.6	8-22
0.075	1232	9769	97.7	2.3	0-5

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53	0	0	0	100	100
45	179	179	1.8	98.2	95-100
22.4	2536	2715	27.2	72.9	60-80
11.2	2150	4865	48.7	51.4	40-60
4.75	1845	6710	67.1	32.9	25-40
2.36	1189	7899	79.0	21.0	15-30
0.600	582	8481	84.8	15.2	8-22
0.075	1232	9713	97.1	2.9	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Prajna

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53	0	0	0	100	100
45	184	184	1.8	98.2	95-100
22.4	2533	2717	27.2	72.8	60-80
11.2	2166	4883	48.8	51.2	40-60
4.75	1844	6727	67.3	32.7	25-40
2.36	1188	7915	79.2	20.9	15-30
0.600	620	8535	85.4	14.7	8-22
0.075	1229	9764	97.6	2.4	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Rajiv

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :07.03.2022

GRADATION FOR WMM

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Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	181	181	1.8	98.2	95-100
22.4	2560	2741	27.4	72.6	60-80
11.2	2130	4871	48.7	51.3	40-60
4.75	1830	6701	67.0	33.0	25-40
2.36	1196	7897	79.0	21.0	15-30
0.600	595	8492	84.9	15.1	8-22
0.075	1235	9727	97.3	2.7	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :07.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :07.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	189	189	1.9	98.1	95-100
22.4	2522	2711	27.1	72.9	60-80
11.2	2163	4874	48.7	51.3	40-60
4.75	1843	6717	67.2	32.8	25-40
2.36	1175	7892	78.9	21.1	15-30
0.600	622	8514	85.1	14.9	8-22
0.075	1234	9748	97.5	2.5	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 09.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	199	199	2.0	98.0	95-100
22.4	2539	2738	27.4	72.6	60-80
11.2	2169	4907	49.1	50.9	40-60
4.75	1839	6746	67.5	32.5	25-40
2.36	1179	7925	79.3	20.8	15-30
0.600	629	8554	85.5	14.5	8-22
0.075	1232	9786	97.9	2.1	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 09.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	182	182	1.8	98.2	95-100
22.4	2563	2745	27.5	72.6	60-80
11.2	2111	4856	48.6	51.4	40-60
4.75	1841	6697	67.0	33.0	25-40
2.36	1181	7878	78.8	21.2	15-30
0.600	580	8458	84.6	15.4	8-22
0.075	1230	9688	96.9	3.1	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 09.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	186	186	1.9	98.1	95-100
22.4	2539	2725	27.3	72.8	60-80
11.2	2169	4894	48.9	51.1	40-60
4.75	1839	6733	67.3	32.7	25-40
2.36	1179	7912	79.1	20.9	15-30
0.600	629	8541	85.4	14.6	8-22
0.075	1232	9773	97.7	2.3	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 09.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	09.03.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	293	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	23.10	22.86

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 09.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	09.03.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	22.92	22.77

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 03.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	03.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.20	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.70	13.10	
	Combined Flakiness & Elongation index	23.90	24.60	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 03.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	03.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.90	12.10	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.20	13.60	
	Combined Flakiness & Elongation index	25.10	25.70	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 04.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.20	
	Combined Flakiness & Elongation index	25.70	25.10	

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.30	11.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.50	12.90	
	Combined Flakiness & Elongation index	23.80	24.30	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Prajna

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	05.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.90	12.10	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.20	13.60	
	Combined Flakiness & Elongation index	25.10	25.70	

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	05.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	12.00	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.50	13.30	
	Combined Flakiness & Elongation index	25.60	25.30	

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	05.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.20	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.70	13.10	
	Combined Flakiness & Elongation index	23.90	24.60	

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	07.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.60	12.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.10	13.20	
	Combined Flakiness & Elongation index	25.70	25.70	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	07.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.20	
	Combined Flakiness & Elongation index	25.70	25.10	

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	07.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.20	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.70	13.10	
	Combined Flakiness & Elongation index	23.90	24.60	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	09.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.30	11.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.50	12.90	
	Combined Flakiness & Elongation index	23.80	24.30	

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Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	12.00	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.50	13.30	
	Combined Flakiness & Elongation index	25.60	25.30	

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